

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-21 R in direct ELISAs and Western blots. Does not cross-react with recombinant human IL-21 R.
Source	Monoclonal Rat IgG ₁ Clone # 155502
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant mouse IL-21 R Leu21-Pro236 Accession # Q9JHX3
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

The interleukin-21 (IL-21) and its receptor appear to play important roles in the regulation of the immune system. IL-21 R, also called NILR (novel interleukin receptor) is a type I cytokine receptor with 4 conserved cysteine residues and an extracellular WSXWS motif. It is most closely related to IL-2 R β and IL-4 R α . Mouse IL-21 R is a 529 amino acid (aa) residue protein with a 19 aa signal peptide, a 217 aa extracellular domain, an 18 aa transmembrane domain, and a 275 aa cytoplasmic domain. Mouse and human IL-21 R share 62% aa identity. IL-21 R is expressed on lymphoid tissues, peripheral B cells, and cell lines of T, B and natural killer lineage. Although not fully elucidated, the IL-2 R γ (Y_c) chain appears to play a role in IL-21 R signaling. The IL-21/IL-21 R interaction appears to play important roles in B and T cell proliferation after antigen stimulation and natural killer cell maturation.

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